NAVY YARD NEW YORK 1-21-19 - U.S.S. MISSISSIPPI - FRONT VIEW OF BRIDGES

F644N-960-

PLAN AT TOP OF TURRET-IV
PLAN AT TOP OF TURRET-III
SECTION FROM 2ND DECK TO TOP OF BARBETTE
SKETCH SHOWING BUTT AT FRAME #80
PLAN OF UPTAKE ARMOR BET 2ND DECK & UPPER DECK
2-LAYERS OF 4" S.T.S. BOTTOM LAYER V-14-185 TOP LAYER V-16-185
PLAN AT TOP OF CONNING & FIRE CONTROL TOWER
SECTION FROM MAIN DECK TO TOP OF BARBETTE
PLAN AT TOP OF TURRET-I
PLAN AT TOP OF TURRET-II
SECTION THRO. CONNING TOWER PEEP HOLES
SECTION FROM 2ND DECK TO MAIN DECK
SECTION FROM 2ND DECK TO TOP OF BARBETTE
3"x3" KEYS FITTED
13½" THICK FROM TOP TO 27'-10⅛" ABOVE BASE LINE - TAPERED TO 8" AT BOTTOM
SIDE BELT ARMOR

DESIRED ORDER OF DELIVERY AND APPROXIMATE WEIGHT OF ARMOR EXCLUDING BOLTS AND ACCESSORIES

DESCRIPTION OF ARMOR	EST. WEIGHT TONS
1 ATHWARTSHIP ARMOR AT FR. #20 BET. 1ST & 2ND PLAT.	62.60
2 " " " " " 1ST PLAT. & 3RD DK	100.00
3 " " " FR. #145 BET. 3RD DK AND STEERING FLAT	22.50
4 LOWER SECTION CONNING TOWER TUBE	15.60
5 ATHWARTSHIP ARMOR AT FR. #20 BET. 3RD DK AND 2ND DK	75.50
6 " " " " 127 " " " " "	122.00
7 LOWER BARBETTE II	61.50
8 " " III	61.50
9 " " I	61.50
10 " " IV	61.50
11 INTERMEDIATE BARBETTE II	191.50
12 MIDDLE SECTION - CONNING TOWER TUBE	103.00
13 MIDDLE SIDE BELT ARMOR - PORT AND STARBOARD	1242.00
14 AFTER " " " " "	1242.00
15 UPPER BARBETTE IV	265.00
16 " " III	526.00
17 " " II	524.00
18 " " I	457.00
19 UPTAKE ARMOR	359.00
20 TURRET IV ARMOR	259.50
21 CONNING TOWER ARMOR	158.00
22 UPPER SECTION CONNING TOWER TUBE	103.00
23 TURRET III ARMOR	259.50
24 FORWARD SIDE BELT ARMOR PORT AND STARBOARD	1242.00
25 TURRET II ARMOR	259.50
26 " I "	259.50
TOTAL	8094.70

Mark	ALTERATIONS	Date	[illegible]	[illegible]
①	BUTTS IN SIDE BELT ARMOR BET. PLATES 1&2 P&S, 45&46 P&S, 46&47 P&S, 47&48 P&S, 48&49 P&S AND 49&50 P&S ALTERED SEE BU. LETTER 46 (1-41) 2-D 1/9 OF 12-14-14 CONSTR LETTER 1400-1 OF 12-15-14	12-17-14	HM	
②	BULKHEAD #48 SHOWN BETWEEN 2D AND 3D DECKS	1-6-15	HM	
③	BUTTS IN UPTAKE ARMOR ALTERED SEE SUPT. CONSTR. LETTER 1400-1 OF 12-10-14 BU. C.&R. LETTER #46 (1-42) 2-D OF 12-9-14.	1-8-15	HM	
④	ON TURRETS II, III, IV REAR PLATES MADE IN ONE PIECE. SEE BUREAUS LETTER No. 74-B41-1-D OF 3-8-15, CONSTR. LETTER 1421-1 OF 3-9-15.	3-17-15	HM	

NOTES ~

PORT AND STARBOARD PLATES ARE SYMMETRICAL
PORT PLATES MARKED - "P."
STARBOARD PLATES MARKED - "S"
OPENINGS IN ARMOR FOR SIGHT HOLES, SOCKETS IN SIDE BELT ARMOR FOR TORPEDO NET BOOMS AND SIDE LADDER FITTINGS, SOCKETS IN BARBETTE ARMOR FOR JACK RODS & FOOT RAILS TO BE SHOWN ON FINAL PLANS.
S.T.S. KEYS FITTED WHERE SHOWN ON THIS PLAN.
SHIP CONTRACTORS WILL FURNISH THE KEYS AND ARMOR MAKERS WILL CUT THE KEYWAYS.
CONNING & FIRE CONTROL TOWER AND CONNING TOWER TUBE TO HAVE DOVE TAILED KEYS.
KEYS IN 4½" ARMOR 1"x1"
" " 9" " 2"x2"
" " 13" " 2⅞"x2⅞"
" " 13½" " 3"x3"
" " TAPERED ATHWARTSHIP ARMOR, UPTAKE ARMOR, SIDE BELT AND TURRET ARMOR AS MARKED.

THE NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.
NEWPORT NEWS, VA.
HULL DEPARTMENT
HULL No. 185
GENERAL ARRANGEMENT
OF ARMOR
SCALE ⅛" - ½" - 1 FT. DATE 11-14-1914
DRAWN BY R.D. TUCKER
TRACED BY " "
CHECKED BY O.P. HAGSTROM
CHIEF DRAFTSMAN
APPROVED 11-24-1914
W. Gatewood
DRAWING No. 68384

11-16-14.
HG.
VY.
VCBU
3NC
1-9-15. O.P.H.
1-12-15
HG
VCBU
3NC
3-22-15
2 HG
VCBU
3NC
12-20-16
3-60.0

U. S. BATTLESHIP No. 41,
MISSISSIPPI
OFFICIAL PLAN NO. 2396.

March 30, 15
1400-1
Higgins

48218

Nov. 23, 14
1400-1
Higgins

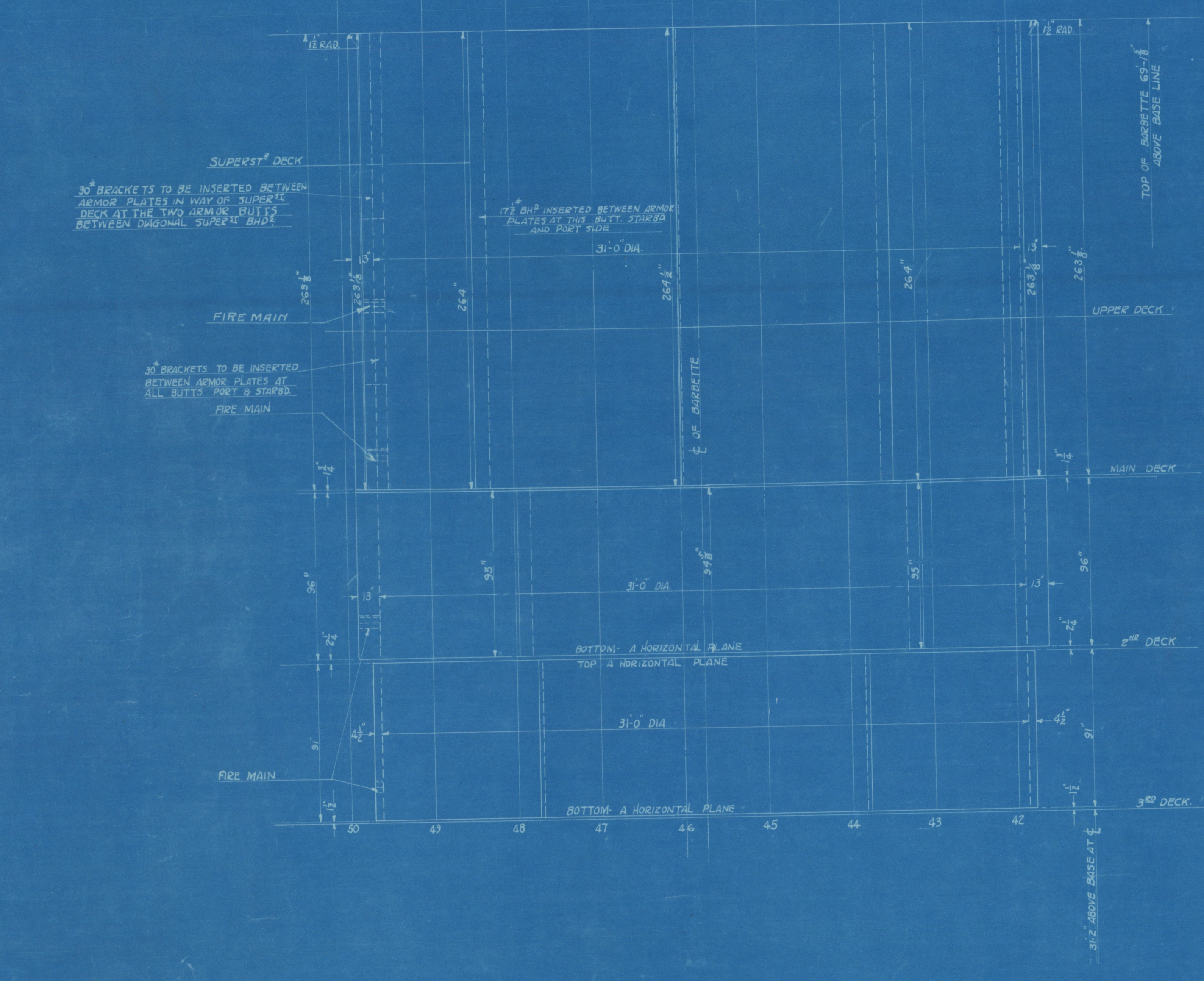
Office of Superintending Constructor,
FOR U.S. NAVY,
Newport News, Virginia.
January 15, 1915
Forwarded To Bureau With Letter
Number 1400-1
Higgins
NAVAL CONSTRUCTOR, U.S.N.
SUPERINTENDING CONSTRUCTOR.

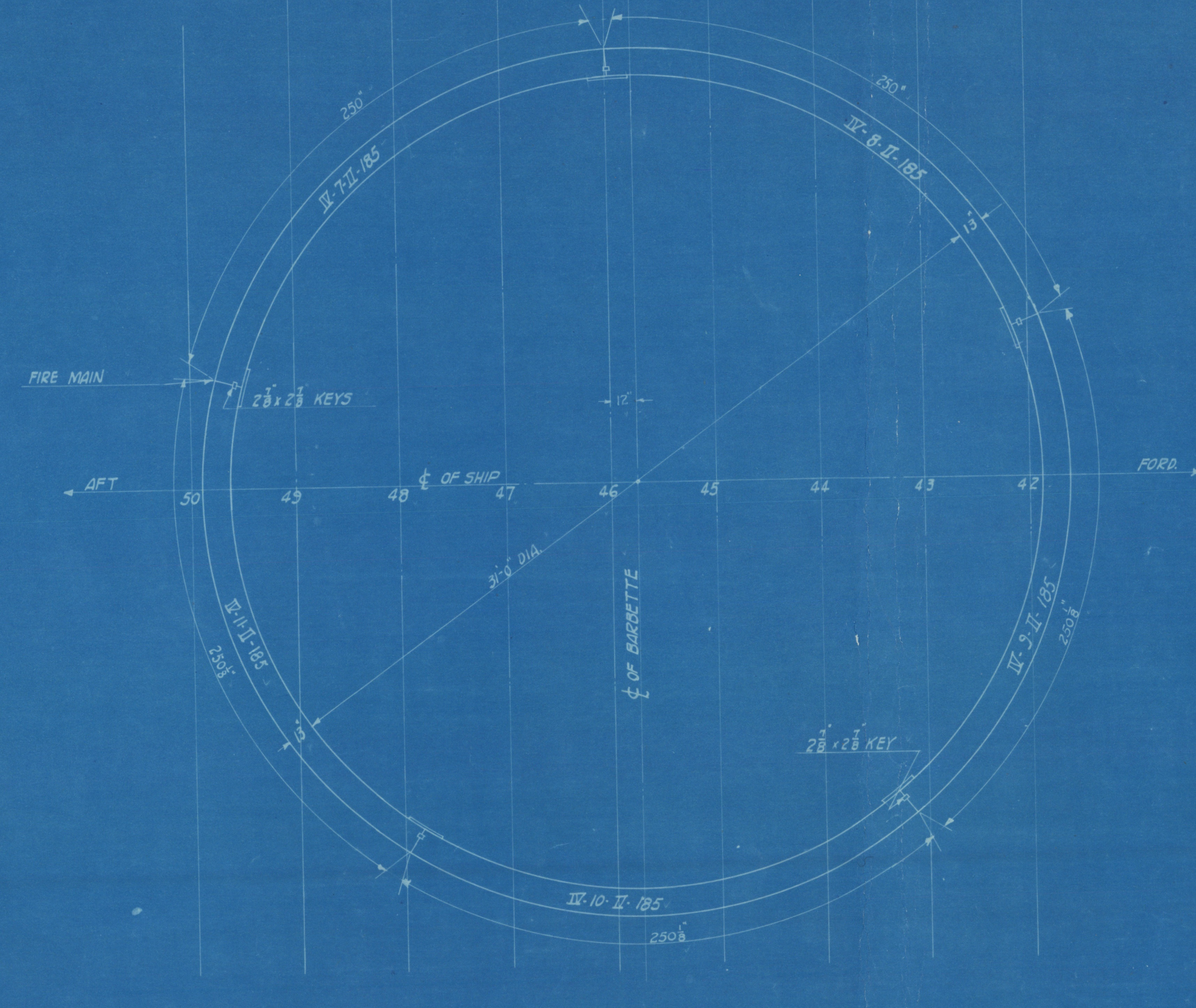
OFFICIAL PLAN NO. 2396 (Revised)

Ctrl. #34,707

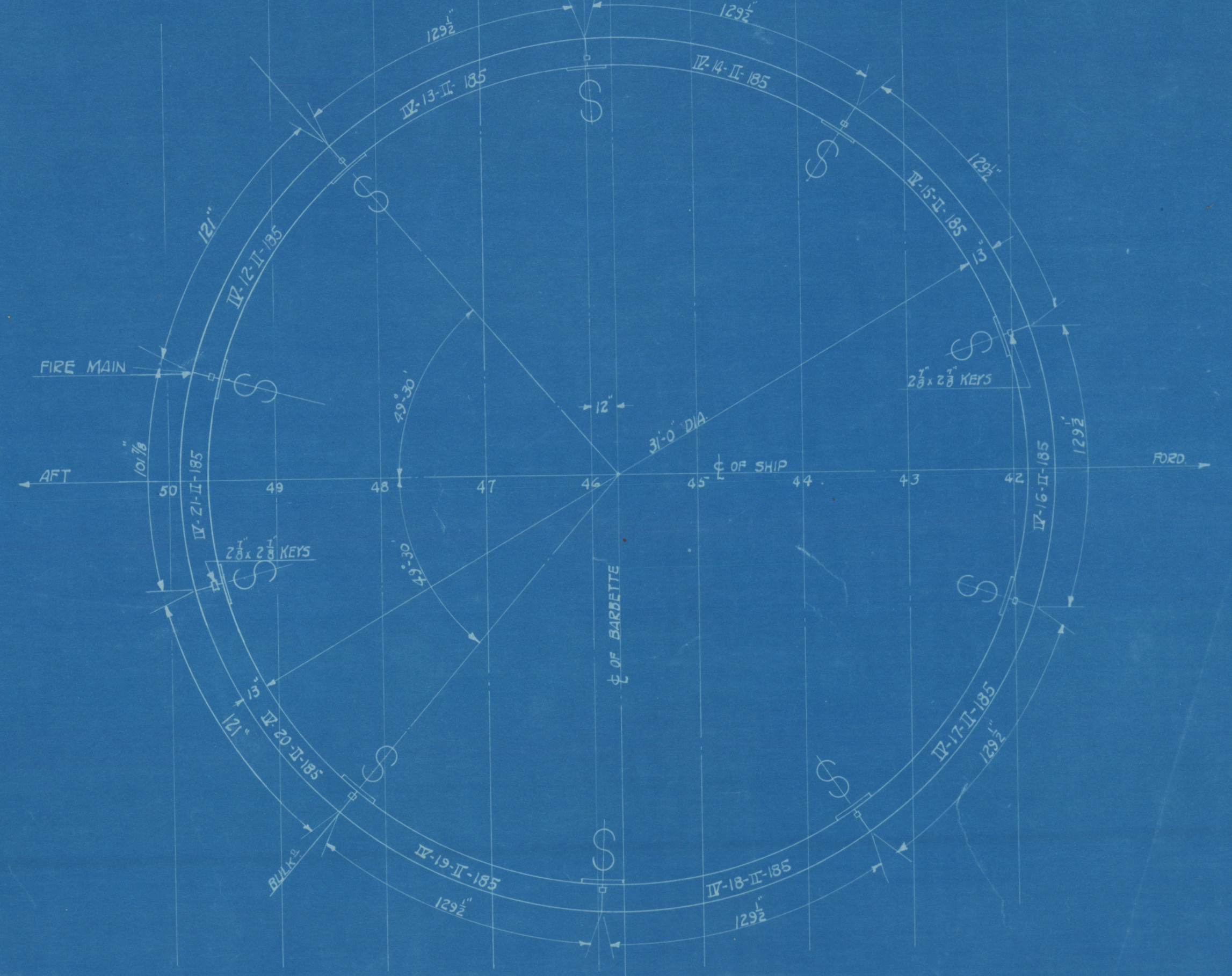
~~32636~~ 32748

	ALTERATIONS			
	HEIGHTS OF UPPER BARBETTE ARMOR INCREASED AND HEIGHTS OF INTERMEDIATE BARBETTE ARMOR REDUCED TO AGREE WITH DETAIL PLANS	O.P.H. 12-21-14		

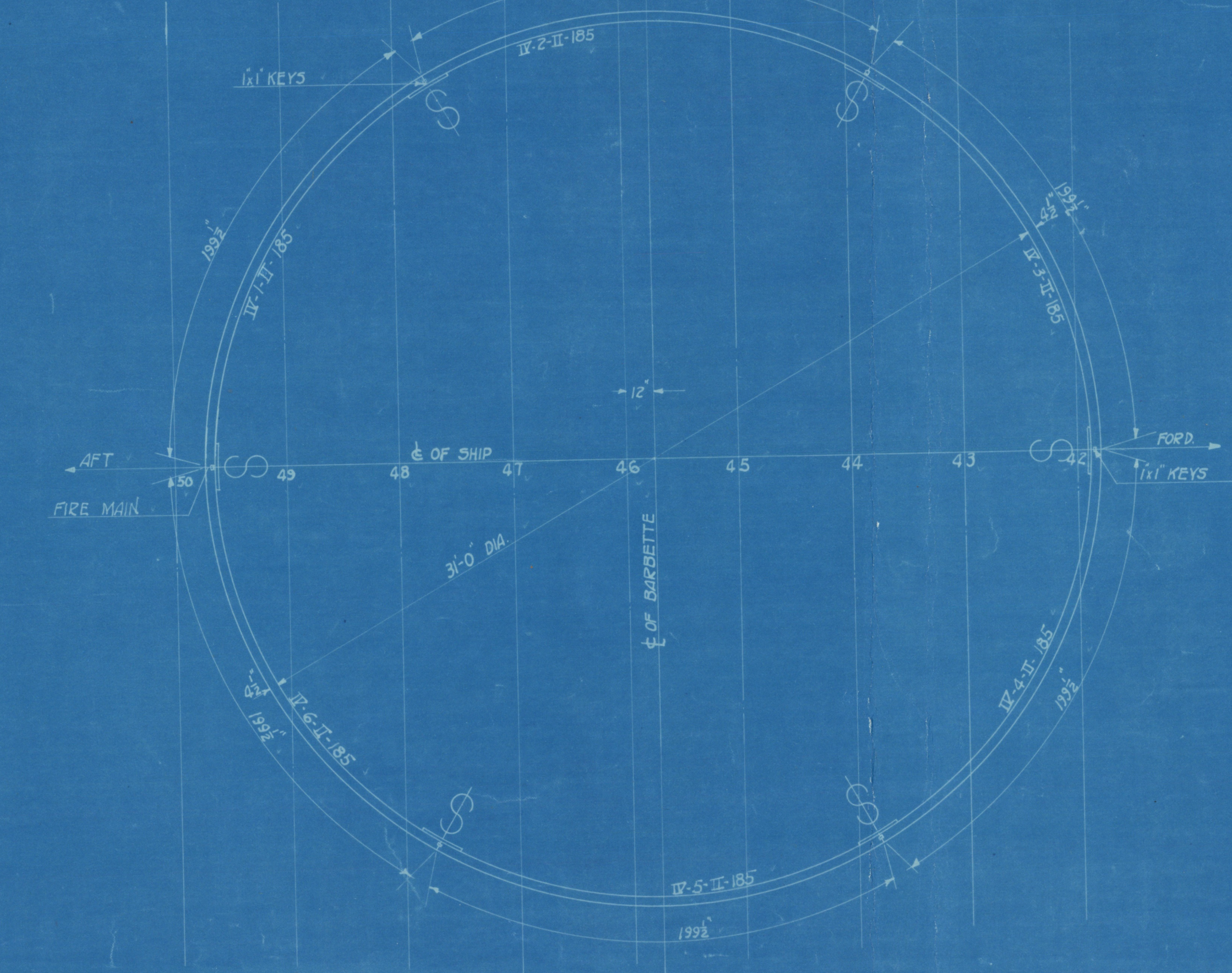

SUPERSTᴿ DECK
30# BRACKETS TO BE INSERTED BETWEEN ARMOR PLATES IN WAY OF SUPERST. DECK AT THE TWO ARMOR BUTTS BETWEEN DIAGONAL SUPERST. BHDS.
17½# BHD. INSERTED BETWEEN ARMOR PLATES AT THIS BUTT. STARBD AND PORT SIDE
1½" RAD.
31'-0" DIA.
FIRE MAIN
30# BRACKETS TO BE INSERTED BETWEEN ARMOR PLATES AT ALL BUTTS PORT & STARBD.
℄ OF BARBETTE
TOP OF BARBETTE 69'-1⅝" ABOVE BASE LINE
UPPER DECK
MAIN DECK
2ND DECK
3RD DECK.
BOTTOM - A HORIZONTAL PLANE
TOP A HORIZONTAL PLANE
31'-2" ABOVE BASE AT ℄
50
49
48
47
46
45
44
43
42



INTERMEDIATE BARBETTE



UPPER BARBETTE



LOWER BARBETTE

NOTES:-
KEYS TO BE FURNISHED BY SHIP CONTRACTOR.
KEYWAYS TO BE CUT BY ARMOR MAKERS.
ALL BUTT STRAPS TO BE 40# x 18 9/16" TREBLE RIVETED WITH 1¼" TAPS.
SOCKETS FOR FOOT AND HAND RAILS WILL BE SHOWN ON DETAIL PLANS.

P.P. 11-23-14
P. 11-23-14
2 HG.
2 NC
12-20-16
3-BU.O.

THE NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.
NEWPORT NEWS, VA.
HULL DEPARTMENT
HULL # 185
BARBETTE II ARMOR
"A" PLAN
SCALE ¼" = 1 FT. DATE 11-11-1914
DRAWN BY R.D.T.
TRACED BY R.M.
CHECKED BY O.P. HAGSTROM
D. H. Morton
CHIEF DRAFTSMAN
APPROVED 11-20-1914
W. Gatewood
NAVAL ARCHITECT
DRAWING No. 68537

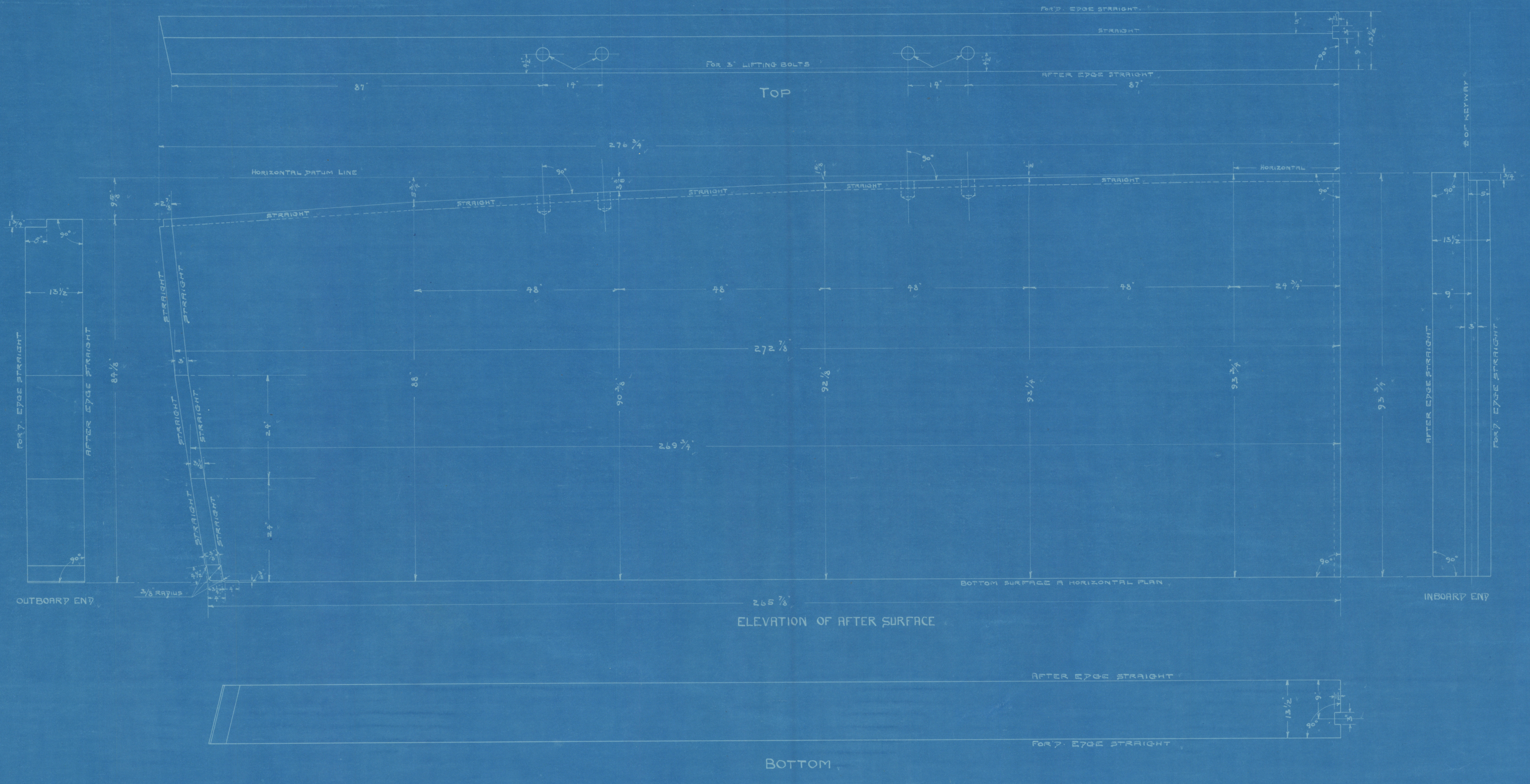
U. S. BATTLESHIP No. 41.
MISSISSIPPI
OFFICIAL PLAN No. 2422. (Revised)

Office of Superintending Constructor,
FOR U. S. NAVY,
Newport News, Virginia.
Nov. 30 1914
Forwarded to Naval Insp. of Ordnance at Midvale Steel Co.
With letter No. 1422-1
E. Higgins
NAVAL CONSTRUCTOR, U. S. N.
SUPERINTENDING CONSTRUCTOR.

Office of Superintending Constructor,
FOR U. S. NAVY,
Newport News, Virginia.
Dec 28 1914
Forwarded to Naval Insp. of Ordnance, Midvale Steel Co with Letter
Number 1422-1a
E. Higgins
NAVAL CONSTRUCTOR, U. S. N.
SUPERINTENDING CONSTRUCTOR

32525 32581

U. S. BATTLESHIP No. 41,
MISSISSIPPI



NOTE ÷
LIFTING BOLTS ARE 3" DIA. SEE SHEET OF STANDARD HOLES AND PLUGS FOR ARMOR, SKETCH "D" DR. NO. 68352.
NORMAL THICKNESS OF PLATE 13 1/2"
AFTER SURFACE OF PLATE TO BE HARDENED.
CORNERS AT BOTTOM OF KEYWAY TO BE ROUNDED TO A RADIUS OF 1/4"

CLASS-A

FINAL

11-25-14
2 HO.
2 NC.
12-20-16
3-BLO.

THE NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.,
NEWPORT NEWS, VA.
HULL DEPARTMENT

HULL No. 185
ATHWARTSHIP ARMOR
I-54-P-185

SCALE 1" 1 FT. DATE 11-23-1914

DRAWN BY
TRACED BY S.G.P.
CHECKED BY O.P. HAGSTROM
D.F. Norton
CHIEF DRAFTSMAN
APPROVED 11-25-1914
W. Gatewood
NAVAL ARCHITECT

DRAWING No.
68619

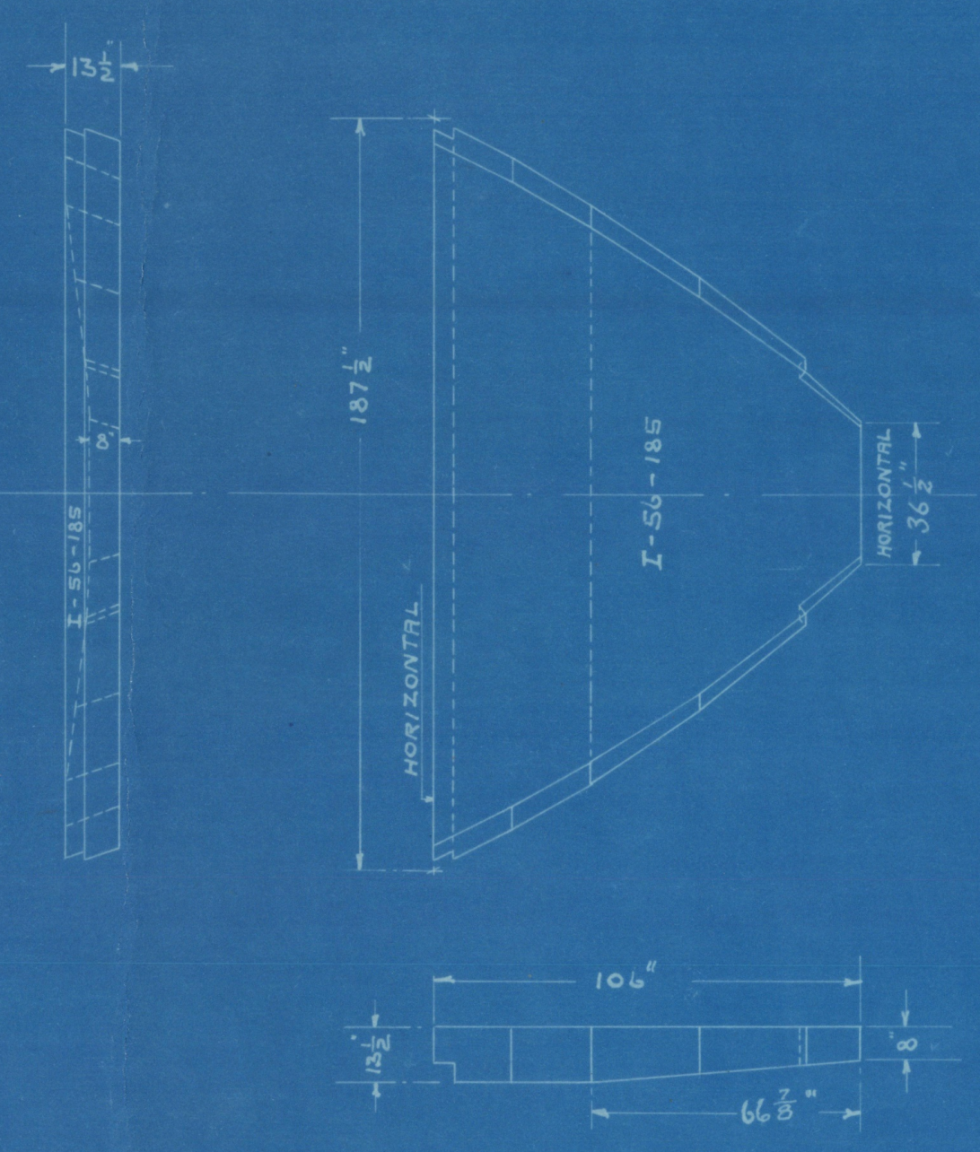
U. S. BATTLESHIP No. 41,
MISSISSIPPI
OFFICIAL PLAN NO. 2462

Office of Superintending Constructor,
FOR U. S. NAVY.
Newport News, Virginia.
Dec 4 1914
Forwarded To Naval Insp. of Ordnance Midvale Steel Co.
With Letter No. 1411-2
E. Haggin
CONSTR. U. S. N.
SUPERINTENDING CONSTRUCTOR.

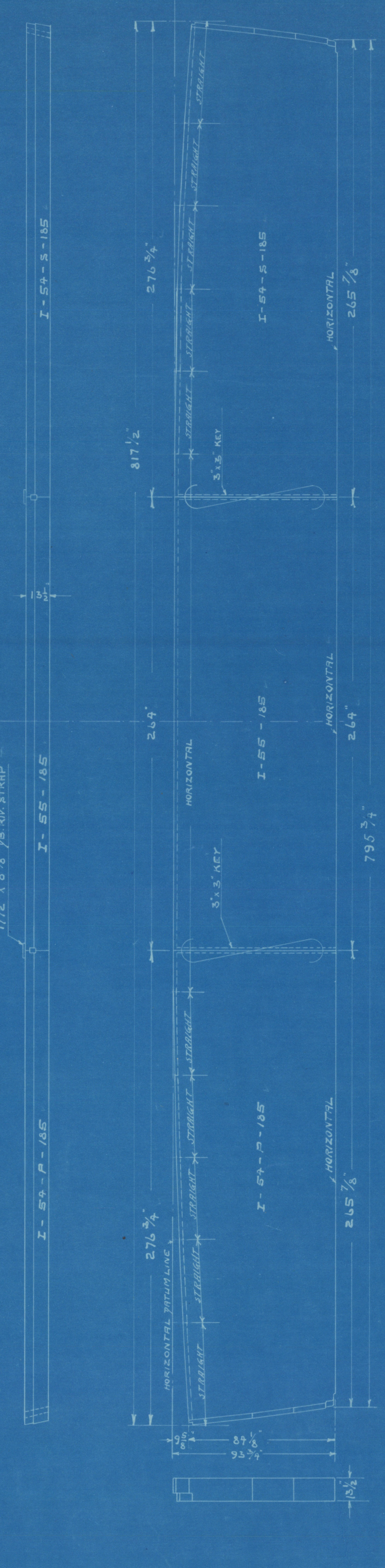
SCHEDULE MARK.	I-54-P-185
NO. REQUIRED.	1
ESTIMATED WEIGHT AT 491 LBS PER CU. FT.	93200 LBS.

U. S. BATTLESHIP No. 41,
MISSISSIPPI

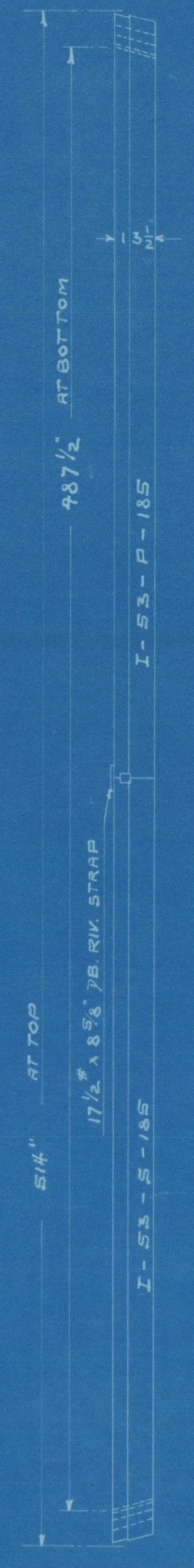
32559



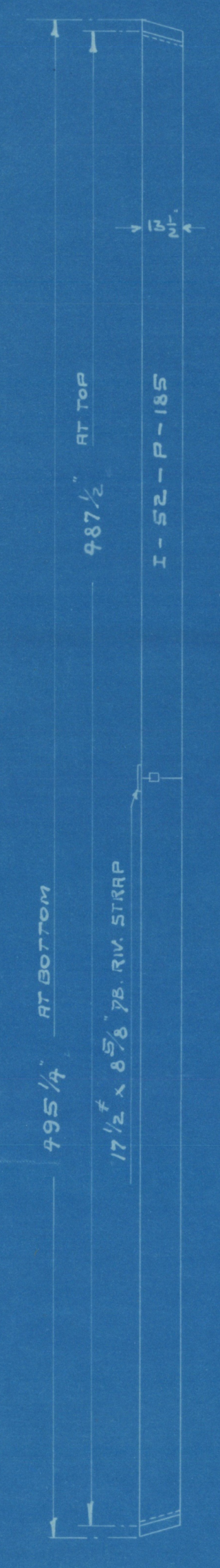
ELEVATION OF AFTERMOST
ATHWARTSHIP ARMOR
LOOKING FOR'D.



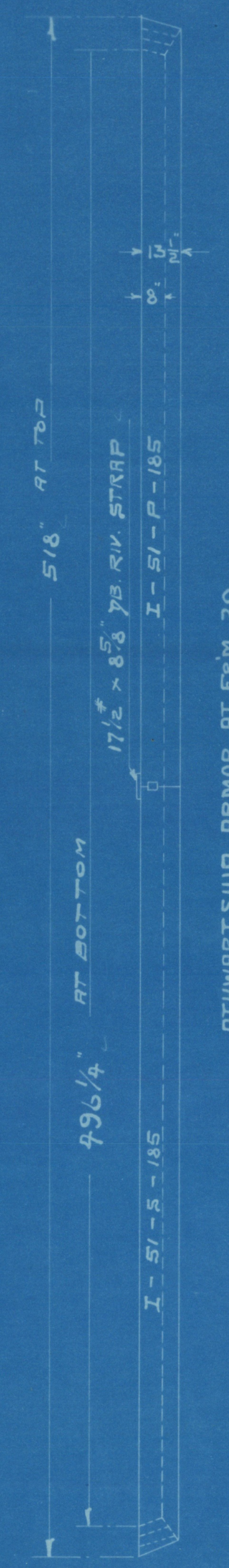
ELEVATION OF ATHWARTSHIP ARMOR AT FR'M. 127
LOOKING FOR'D.



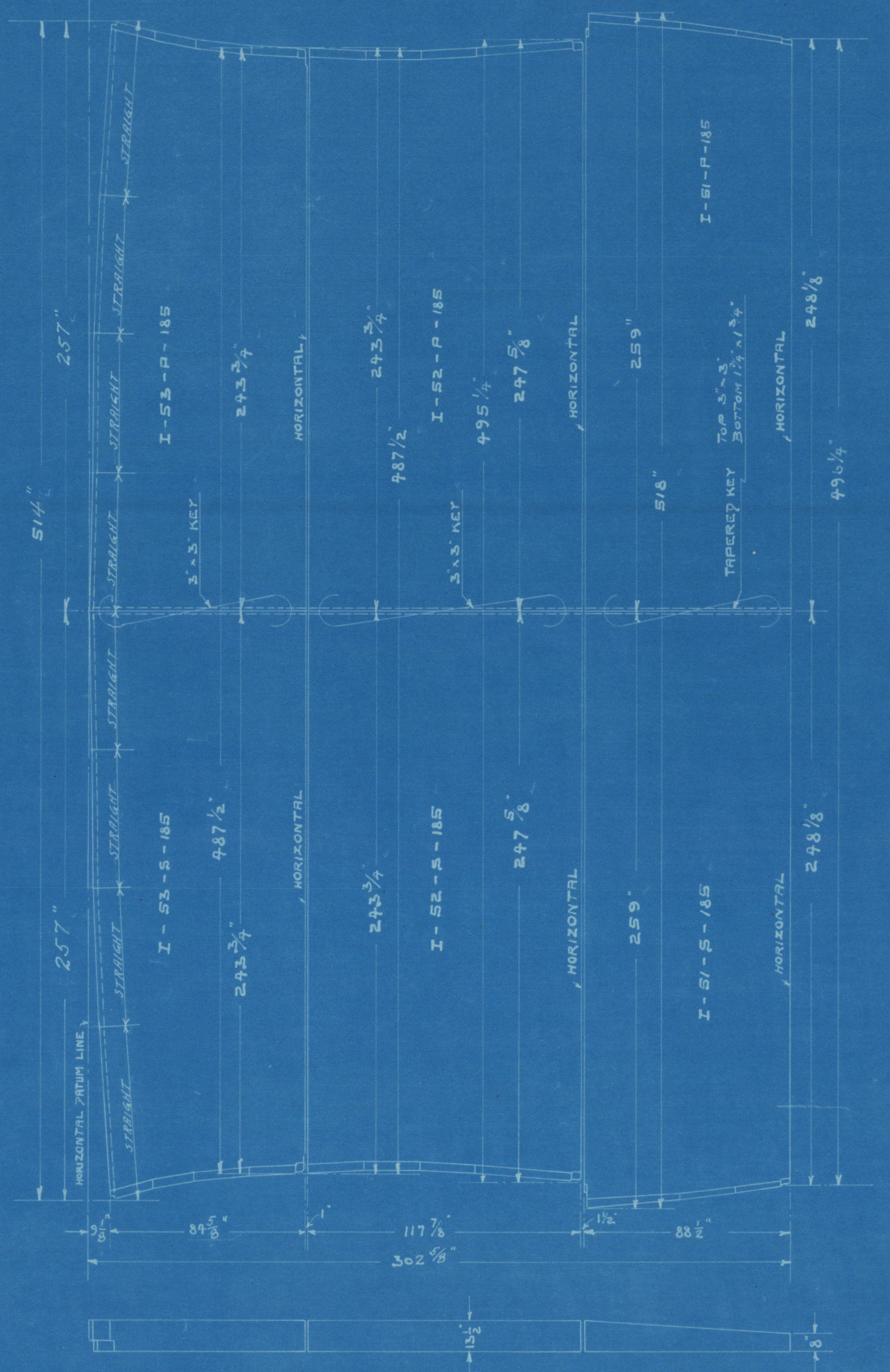
ATHWARTSHIP ARMOR AT FR'M 20
BETWEEN 2ND & 3RD DECK



ATHWARTSHIP ARMOR AT FR'M 20
BETWEEN 3RD DECK & 1ST PLATFORM



ATHWARTSHIP ARMOR AT FR'M 20
BETWEEN 1ST & 2ND PLATFORM



ELEVATION OF ATHWARTSHIP ARMOR AT FR'M 20
LOOKING AFT

NOTE ÷
KEYS TO BE FURNISHED BY SHIP CONTRACTOR
KEYWAYS TO BE CUT BY ARMOR MAKERS

P.
11-25-14
2 HG.
2 NC.
12-20-16
3-B40.

THE NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.
NEWPORT NEWS, VA.
HULL DEPARTMENT
HULL No. 185
ARRANGEMENT OF
ATHWARTSHIP ARMOR
SCALE 1/4" 1 FT. DATE 11-21-1914
DRAWN BY
TRACED BY E.G.P.
CHECKED BY O.P. HAGSTROM
W. H. Norton
CHIEF DRAFTSMAN
APPROVED 11-25-1914
W. Gatewood
NAVAL ARCHITECT
DRAWING No.
68516

U. S. BATTLESHIP No. 41,
MISSISSIPPI
OFFICIAL PLAN No. 2455

Office of Superintending Constructor,
U. S. Navy,
Newport News, Virginia.
Dec. 4 1914
Forwarded to Naval Insp. of Ordnance Midvale Steel Co.
With Letter No. 1411-2
Eggers
NAVAL CONSTRUCTOR

U. S. BATTLESHIP No. 41
MISSISSIPPI

32552

SCHEDULE MARK.	VI-1-I-185
NO. REQUIRED.	1
ESTIMATED WEIGHT AT 491 LBS. PER CU. FT.	100,000 LBS

SCHEDULE MARK.	VI-1-II-185
NO. REQUIRED.	1
ESTIMATED WEIGHT AT 491 LBS. PER CU. FT.	100 000 LBS

SCHEDULE MARK.	VI-1-III-185
NO. REQUIRED.	1
ESTIMATED WEIGHT AT 491 LBS. PER CU. FT.	100 000 LBS

SCHEDULE MARK.	VI-1-IV-185
NO. REQUIRED.	1
ESTIMATED WEIGHT AT 491 LBS. PER CU. FT.	100 000 LBS.

32730

NOTE:

THE OUTER SURFACE AND THE INNER SURFACE OF THE PLATE ARE PLANE SURFACES.

NORMAL THICKNESS OF PLATE = 18"

OUTER SURFACE OF PLATE TO HARDENED EXCEPT WHERE NOTED

GUNS PORTS TO BE CUT FROM PLAN FURNISHED BY BUREAU OF ORDNANCE

LIFTING BOLTS ARE 3" DIA. SEE SHEET OF STANDARD HOLES & PLUGS. SKETCH "D". DRAWING Nº 68352

CLASS "A"

FINAL

THE NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.,
NEWPORT NEWS, VA.
HULL DEPARTMENT

HULL # 185
14" TURRET ARMOR
VI-1-I-185, VI-1-II-185, VI-1-III-185, VI-1-IV-185
SCALE 1" & 3" – 1 FT. DATE 3-22-1915

DRAWN BY S.C. WESTON
TRACED BY R. MENIN
CHECKED BY O.P. HAGSTROM
DRAWING No. 70471

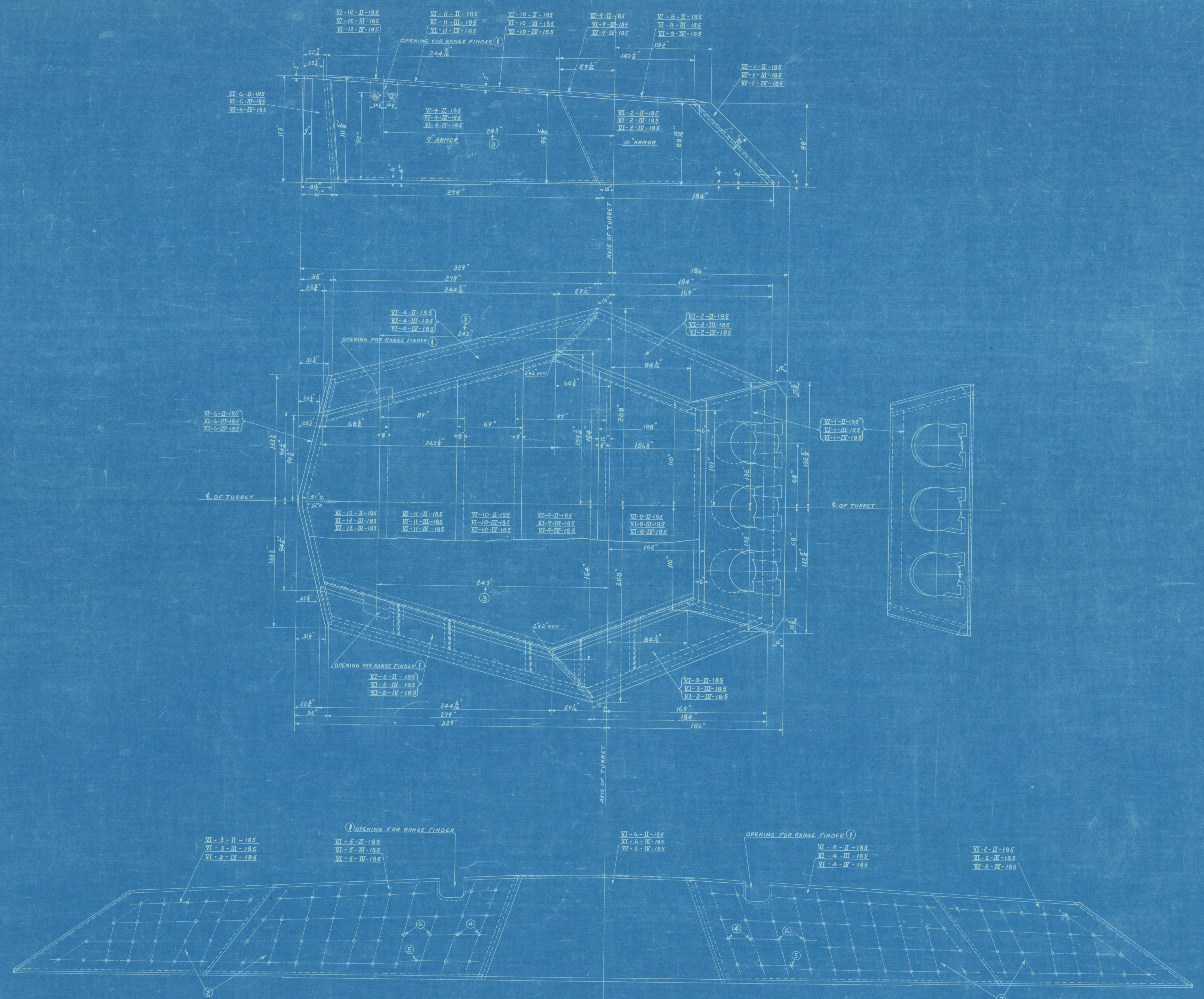
R.P. Norton
CHIEF DRAFTSMAN
APPROVED 3-23-1915
W. Gatewood
NAVAL ARCHITECT

P
3-23-15
2 H.G.
5 N.C.
MIDVALE
12-20-16.
3-BU.O.

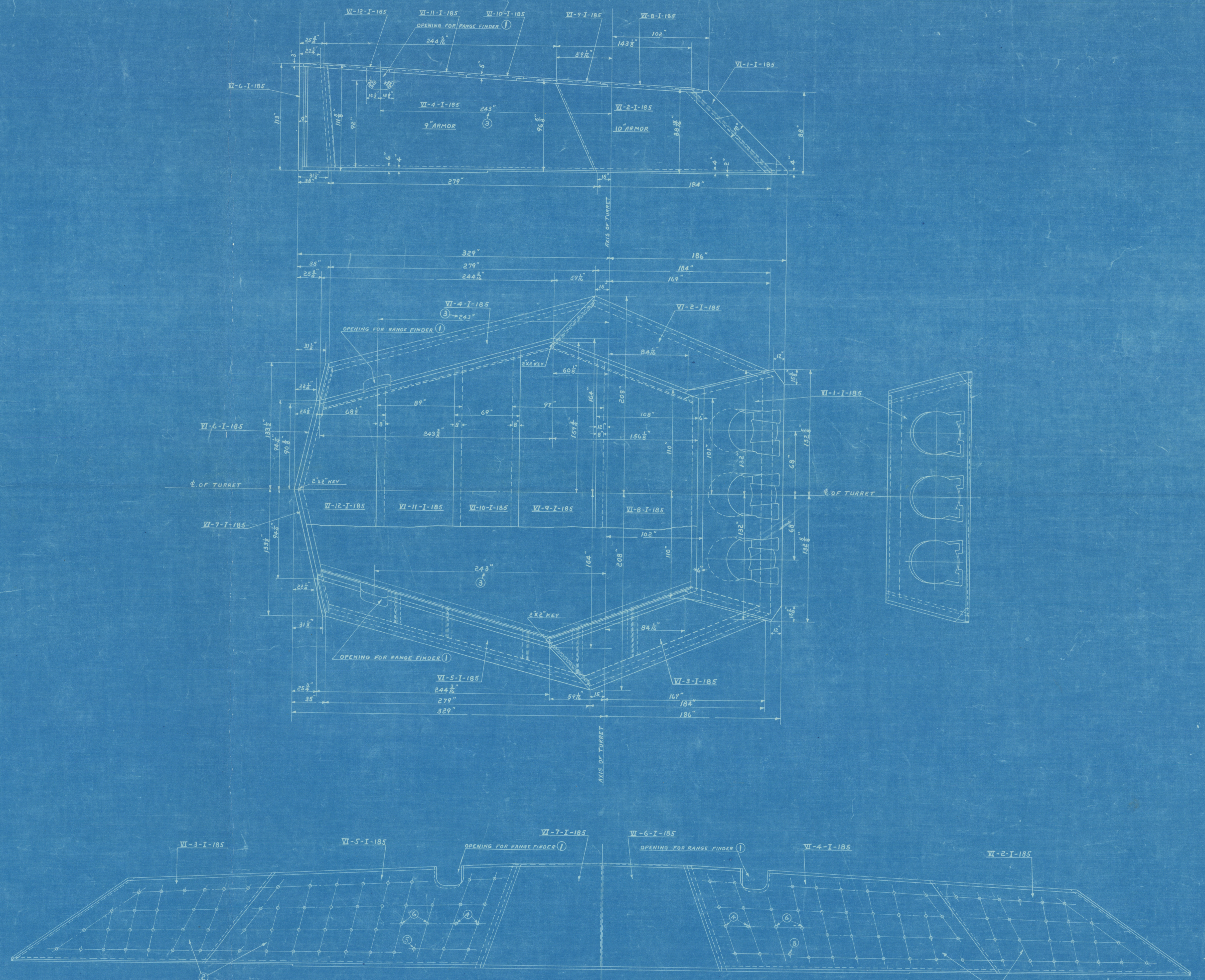
U. S. BATTLESHIP No. 41,
MISSISSIPPI
OFFICIAL PLAN No. 2697

Office of Superintending Constructor,
FOR U. S. NAVY,
Newport News, Virginia.
March 26 1915
Forwarded To Naval Insp. of Ordnance Midvale Steel works
With Letter No. 1421-1
NAVAL CONSTRUCTOR, U. S. N.
SUPERINTENDING CONSTRUCTOR.

[illegible]	ALTERATIONS	Date	D.R.	Approved
①	OPENING FOR RANGE FINDER MADE TO AGREE WITH B. OF O. PLAN # 48768 SEE BU. C & R. LETTER 74-B41-3 OF 5-5-15 CONSTR. LETTER 1421-1 OF 5-6-15	O.P.H. 5-11-15	HAM	
②	LOCATION OF ARMOR BOLTS ALTERED TO AGREE WITH DETAIL PLANS	O.P.H. 5-11-15	HAM	
③	LOCATION OF OPENING FOR RANGE FINDER CORRECTED TO AGREE WITH BU. OF ORD. PLAN Nº 48768 SEE CONSTR. LETTER 1421-1 OF 6-28-15	O.P.H. 7-1-15	E.F.H.	
④	LOCATION OF 2-ARMOR BOLT HOLES IN EACH OF PLATES 4 AND 5 CHANGED TO CLEAR STRUCTURE	O.P.H. 7-2-15	E.F.H.	
⑤	LOCATION OF ARMOR BOLT HOLE IN EACH OF PLATES 4 AND 5 CHANGED TO CLEAR STRUCTURE	O.P.H. 7-7-15	E.F.H.	
⑥	LOCATION OF ARMOR BOLT HOLES IN EACH OF PLATES 4 AND 5 CHANGED TO CLEAR REARRANGEMENT OF STRUCTURE	O.P.H. 10-27-15	E.F.H.	



ARMOR BOLTS ARE 2.4" DIA.



ARMOR BOLTS ARE 2.4" DIA.

NOTE :-
BACKING PLATE 30 LBS.

THE NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.
NEWPORT NEWS, VA.
HULL DEPARTMENT

HULL Nº. 185
14" TURRET ARMOR
"A" - PLAN
1/4"
3-18-1915
R.D. TUCKER
" "
O.P. HAGSTROM
W. A. Post
70470

P
3-18-15
2 HG
3 NC
MIDVALE
P
5-14-15
2 HG
2 NC
P
7-2-15
2 HG
2 NC
P
7-9-15
2 HG
2 NC
P.
8-24-15
2-SC
P
11-2-15
2 HG
2 NC
12-20-16
3 B.O.O.

U. S. BATTLESHIP No. 41,
MISSISSIPPI
OFFICIAL PLAN NO. 2666

"MISSISSIPPI"
OFFICIAL PLAN No. 2666 (Revised)

Office of Superintending Constructor
FOR U.S. NAVY
Newport News, Virginia.
March 22 15
Forwarded to Naval Insp. of Ordnance ^ Midvale Steel Works
With Letter No. 1421-1
R. Eggers
NAVAL CONSTRUCTOR, U.S.N.
SUPERINTENDING CONSTRUCTOR.

Office of Superintending Constructor
FOR U.S. NAVY
Newport News, Virginia.
May 18 15
Forwarded to Naval Insp. of Ordnance ^ Midvale Steel Works
With Letter No. 1421-1
R. Eggers
NAVAL CONSTRUCTOR, U.S.N.
SUPERINTENDING CONSTRUCTOR.

Nov. 4 15
Naval Insp of Ordnance ^ Midvale Steel Works
1421-1
R. Eggers

July 13 15
Naval Insp. of Ordnance ^ Midvale Steel Co.
1421-1
R. Eggers

34216
~~33579~~
~~32706~~ ~~33307~~